

DOW UNIVERSITY OF HEALTH SCIENCES



NUCLEAR MEDICINE & THERANOSTICS

•SPECT •PET/CT •CYCLOTRON •NUCLEAR CARDIOLOGY •THERANOSTICS

FIRST ANNUAL NEWSLETTER NUCLEAR MEDICINE & THERANOSTICS 2025-2026

NMT TEAM

Head & Program Director: Prof. Nosheen Fatima

SMO: Dr. Asad Jalil

SMO: Dr. Tooba Khan

Chief Nuclear Medicine Technologist: Hina Aftab

Senior Nuclear Medicine Technologist: Samreen Iqbal

Nuclear Medicine Technologist: Asma Ismail

Nuclear Medicine Technologist: Niha Imran

Trainee Nuclear Medicine Technologist: M. Yousuf Badaruddin

Trainee Nuclear Medicine Technologist: Moiz Uddin

Registered Nurse: Sharjeel Nazir

Registered Nurse: Rafique Ahmed

Radiopharmacist: Imran Ali

Lecturer Physicist: M. Zohaib Ansari

Research Associate: Nimra Panhwar

Assistant Manager : M. Danish Khan

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IT Support: Syed Hassan Ali Naqvi

IT Support: Abdul Raheem Turk

NUCLEAR MEDICINE & THERANOSTICS

MESSAGE FROM VICE CHANCELLOR



It is a matter of great satisfaction to witness the launch of the **First Annual Newsletter of the Nuclear Medicine & Theranostics Department at the Comprehensive Cancer Center, DUHS**. This milestone reflects the department's commendable progress since its establishment in April 2025, under the leadership of our previous Vice Chancellor Prof. Dr. M. Saeed Quraishy (TI). The Department is making vital contribution to strengthening the services for cancer care patients.

The rapid development of clinical, academic, and research capabilities, along with the introduction of Theranostics services and the BS Nuclear Medicine Technology program, are significant achievements that align with DUHS's vision **"to be a pre-eminent academic institution committed to changing and saving lives."**

I congratulate Prof. Nosheen Fatima and her team for their dedication and professionalism, and I am confident that they will continue to advance excellence in patient care, education, and research.

PROF. DR. NAZLI HOSSAIN

VICE CHANCELLOR

DOW UNIVERSITY OF HEALTH SCIENCES (DUHS)

MESSAGE FROM DIRECTOR



It gives me **great pleasure to share the launch of our first departmental newsletter**, marking an important milestone since the inauguration of the Nuclear Medicine Department in April 2025.

The journey over the past year has been both challenging and rewarding. We encountered several hurdles, including the accreditation process with PNRA, procurement delays of essential equipment, financial planning and costing phases, establishment of clinical workflows, development of informational brochures, and completion of human resource hiring. Despite these initial challenges, the department has demonstrated remarkable resilience and commitment.

I am proud to highlight that within a short span of time, we have achieved significant progress. Our services have expanded in scope and volume, and we have established a strong presence in an increasingly competitive healthcare market. The department has also made noteworthy academic contributions through active participation in national and international conferences, along with multiple research publications.

Among our most distinguished achievements is the successful operationalization of Theranostics services, representing a major advancement in patient-centered precision care. Additionally, the launch of the BS Nuclear Medicine Technology program within the first year of inauguration reflects our dedication to academic excellence and capacity building for the future.

These accomplishments would not have been possible without the unwavering dedication, teamwork, and, above all, the immense support and trust of DUHS management. As we move forward, we remain steadfast in our commitment to continued growth, innovation, and excellence in clinical services, education, and research.

PROF. DR. NOSHEEN FATIMA

HEAD AND PROGRAM DIRECTOR

NUCLEAR MEDICINE & THERANOSTICS

COMPREHENSIVE CANCER CENTRE, DUHS

NUCLEAR MEDICINE & THERANOSTICS

RIBBON-CUTTING TO RADIANCE “DEPARTMENT INAUGURATION”



The **Nuclear Medicine and Theranostics Department** was formally inaugurated by **Murad Ali Shah** on **16TH April 2025** in the presence of the Vice Chancellor and Head of Department. The ceremony began with a ribbon-cutting, marking the launch of advanced nuclear medicine services. This milestone strengthens the institution's commitment to modern diagnostic imaging, targeted theranostic treatments, research, and improved patient care.

THE BEAUTY OF NUCLEAR MEDICINE & THERANOSTICS

Our department is powered by advanced, state-of-the-art imaging technologies that support high-quality diagnostic and clinical services.



The NM830 Gamma Camera delivers precise functional imaging with excellent sensitivity and resolution, enabling accurate evaluation across a range of nuclear medicine procedures.



The Neusoft PET/CT system combines metabolic and anatomical imaging, playing a crucial role in early disease detection, staging, and therapy response assessment, particularly in oncology.



Complementing these systems, our in-house cyclotron ensures a consistent and timely production of radiopharmaceuticals, strengthening our capability to provide efficient, reliable, and cutting-edge patient care.

NUCLEAR MEDICINE & THERANOSTICS



DEDICATED TEAM- OUR NUCLEAR NINJAS

The Nuclear Medicine and Theranostics Department is driven by a dedicated team of physicians, medical physicists, technologists, nurses, and support staff committed to excellence in patient care and advanced diagnostics. All team members are BLS and ACLS certified, ensuring the highest standards of safety and emergency preparedness. Through continuous training, research, and collaboration, the team works to advance nuclear medicine and deliver precise, patient-centered care.

LEARNING FROM THE EXPERTS, LEADING THE FUTURE

NeuWise Pro PET/CT training conducted by a technical team from China

In November 2024, the department conducted a 15-day intensive training on the **NeuWise Pro PET/CT** Scanner with guidance from a specialized technical team from China.



The program covered system operation, patient preparation, imaging protocols, and quality control.

This training played a crucial role in building the technical expertise of the department's team, ensuring safe operation of the equipment and maintaining high standards of diagnostic accuracy. It also marked an important step toward the department's goal of delivering advanced molecular imaging services and improving patient care through modern nuclear medicine technology.

SPECTACULAR SKILLS IN ACTION

NM830 SPECT and Xeleris Workstation training conducted by a GE HealthCare



In May 2025, the department held a four-day specialized training on the **NM830 SPECT System and Xeleris Workstation** in collaboration with GE HealthCare.

Led by an expert instructor from Lebanon, the program covered SPECT imaging principles, acquisition protocols, image reconstruction, and data processing.

The training enhanced the staff's technical skills and improved the accuracy and efficiency of nuclear medicine diagnostic services.

NUCLEAR MEDICINE & THERANOSTICS

REGULATORY MILESTONE UNLOCKED-PNRA

In February 2025, the Nuclear Medicine and Theranostics Department successfully underwent a comprehensive regulatory inspection conducted by the **Pakistan Nuclear Regulatory Authority**. The inspection involved a detailed evaluation of departmental protocols, radiation safety measures, operational procedures, and compliance with national regulatory standards governing nuclear medicine facilities.



During the visit, the inspection team carried out thorough verification of all operational protocols, including radiation protection practices, equipment safety, waste management procedures, and staff training records. The department successfully met all required standards, and the inspection concluded with formal approval from the regulatory authority.

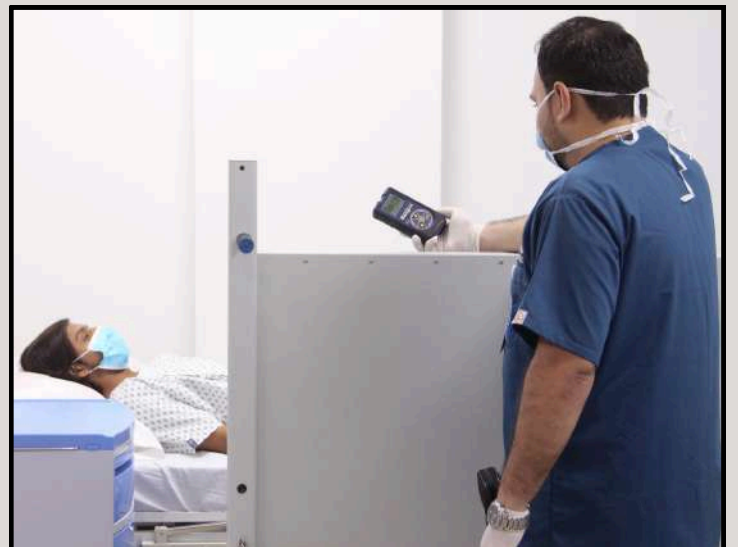
This achievement reflects the department's strong commitment to maintaining the highest standards of radiation safety, regulatory compliance, and quality patient care. The successful completion of the inspection further strengthens the department's foundation for delivering safe, reliable, and advanced nuclear medicine and theranostic services.



THERANOSTICS BEGINS

A new era of patient care began in October 2025 when our department successfully performed its first theranostics treatment. This landmark procedure marked the start of delivering personalized, targeted radionuclide therapy, bringing hope and precision care to patients in need.

We are immensely proud of our team, whose dedication, skill, and compassion have made this achievement possible. The journey of theranostics in our department is just beginning, and we are excited to continue pushing the boundaries of modern nuclear medicine.



NUCLEAR MEDICINE & THERANOSTICS

OUR LIFE SAVING CHAMPIONS

BLS & ACLS CERTIFIED

Our Nuclear Medicine and Theranostics team has successfully achieved **BLS (Basic Life Support) and ACLS (Advanced Cardiac Life Support) certification**, strengthening their ability to respond effectively in medical emergencies. Through specialized training in CPR, airway management, defibrillation, and advanced cardiac protocols, the team has enhanced its readiness to deliver life-saving care. This achievement reflects their strong commitment to patient safety, professional excellence, and emergency preparedness. As Head of the Department, I am immensely proud of the team's dedication to ensuring the highest standards of compassionate and reliable patient care.



FIGHT THE FIRE, SAVE THE DAY

Safety remains a top priority in the Nuclear Medicine and Theranostics Department. Our team recently completed **fire safety** training conducted by the Dow University of Health Sciences, covering fire prevention, evacuation procedures, and proper use of fire extinguishers. This training has strengthened our preparedness to handle emergencies and ensure a safe environment for patients and staff.



NUCLEAR MEDICINE TEAM ON FIRE

Skills, Training & Innovation in Full Swing



The Nuclear Medicine and Theranostics Department weekly organizes **academic sessions** and specialized training programs to enhance the skills and knowledge of its team. Through lectures, and discussions, staff stay updated with the latest advancements in nuclear medicine. These initiatives promote continuous learning, professional excellence, and improved patient-centered care.

NUCLEAR MEDICINE & THERANOSTICS

SCHOLARLY CONTRIBUTION AND PROFESSIONAL NETWORKING

As Head of the Department, I, along with my team, have always believed in staying actively connected with the academic and professional community. Over time, we have had the opportunity to participate in various national and international platforms through presentations, invited talks, and academic discussions.

I have been fortunate to represent our department at different forums, where I shared our clinical experiences and insights in Nuclear Medicine. These interactions have not only been a chance to contribute but also to learn from others and grow together as professionals.

Delivered Invited talks at the Karachi Institute of Heart Diseases (February 2025), Shaukat Khanum Memorial Cancer Hospital & Research Centre (November 2025), the Surgical Oncology Conference in Karachi (January 2026), and the Annual Symposium at Jinnah Postgraduate Medical Centre (AEMC, Karachi; February 2026). Additionally, served as a facilitator in various in-house academic forums at Dow University of Health Sciences.

Presented research at an international conference hosted by Singapore General Hospital (February 2025), and at the Supporting Women in Science Conference organized by the Institute of Global Health Development at Aga Khan University Hospital (November 2025). Furthermore, received the Best Presentation Award at the annual conference of the SNMMI Mid-Winter ACNM Annual Meeting 30th January 2025 Anaheim, California.



We are proud to announce that our research titled **“The Impact of Cancer-Related Distress on Cerebral Glucose Metabolism & Chemotherapy Response in Lymphoma Patients”** was successfully presented at the **Annual National Comprehensive Cancer Network (NCCN) Conference, held in Orlando, Florida, USA, from 26th to 28th March 2026.**



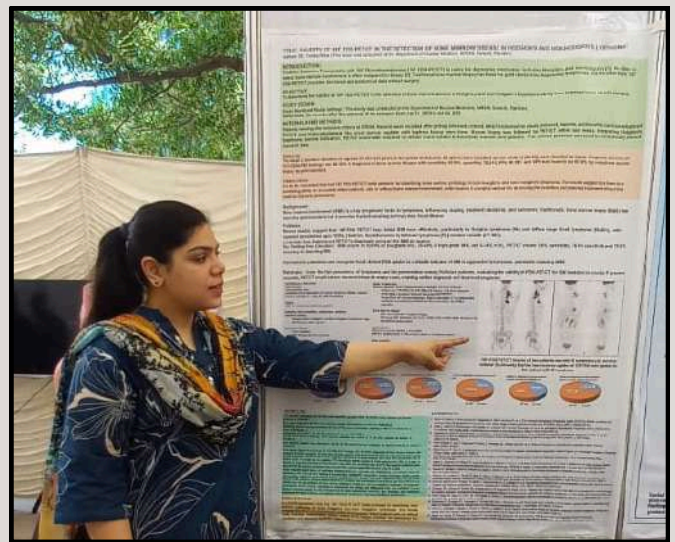
My team continue to stay involved in research, publications, and participation in conferences, workshops, and training programs. These efforts help us stay updated, build meaningful professional connections, and bring back valuable knowledge to our department.

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Dr Tooba Khan participated in a **Cervical and Breast Cancer Awareness and Prevention Seminar in Health Asia Annual event at Expo Center Karachi October 2025**, contributing to educational discussions on early detection, screening, and preventive strategies for women’s health. Her participation highlighted the importance of community awareness in reducing the burden of cervical and breast cancers through timely diagnosis and preventive care initiatives.

She participated in a **Symposium on Radiation Safety from a Nuclear Medicine Perspective held in August 2025**. Also participated in the Annual Research Week 2026, where she presented her research abstract in a poster presentation, showcasing her academic contribution and active involvement in scientific research.



Our team, including **Niha Imran & Asma Ismail** presented a **Poster presentation titled “Enhancing Efficiency and Sustainability: The Impact of Paperless Integration in Dow Nuclear Medicine and Theranostics”** at the **International Allied Health Sciences Research Conference** held on **19th - 20th February 2025** at Dow Institute of Medical Technology, DUHS. They also participated with an **e-poster presentation at the 24th Shaukat Khanum Cancer Symposium (SKCS), held on 24TH - 26TH October 2025** at PC Hotel, Lahore.



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Dr Asad Jalil presented an **oral presentation** titled **“Prognostic Impact of BMI in Genders with CAD using SPECT Gated MPI”** at the **Pakistan Society of Nuclear Medicine (PSNM)** held in **November 2025**.

His presentation contributed to the scientific program by sharing valuable insights and research findings in the field of nuclear medicine, highlighting recent advancements and clinical applications. He also participated in a **Symposium on Radiation Safety from a Nuclear Medicine Perspective**, reflecting his commitment to safe and effective clinical practices.

He also participated in a **Symposium on Radiation Safety from a Nuclear Medicine Perspective** held in **August 2025**, reflecting his commitment to safe and effective clinical practices.



Muhammad Khavi Iqbal took part in the **10th Annual Conference pre-conference workshop** titled **“From Particles to Patients: The Science Behind the Image,”** held on **31st October 2025** at **Shaukat Khanum Memorial Cancer Hospital & Research Centre (SKMCH & RC)**, organized by the **Pakistan Society of Nuclear Medicine (PSNM)**. This experience gave him a deeper understanding of how imaging connects scientific concepts with real patient care. His participation reflects his genuine interest in learning, growing in his field, and staying connected with the latest developments in nuclear medicine.



NUCLEAR MEDICINE & THERANOSTICS

RESEARCH MILESTONES:

PUBLICATIONS IN NUCLEAR MEDICINE & THERANOSTICS

We are proud to highlight our department's academic contribution with 12 research publications in the field of Nuclear Medicine & Theranostics. These publications reflect our continuous commitment to scientific inquiry, innovation, and evidence-based clinical practice. Each study adds value to the growing body of knowledge and supports our mission of advancing patient care through research and collaboration.

1. Original Article: Fatima N, ..Panhwar N, Ismail A, Imran N et al. CLO26-080: Impact of Cancer Related Distress Estimated by Distress Thermometer on Cerebral Glucose Metabolism and Impact on Chemotherapy Response in Lymphoma Patients. J Natl Compr Canc Netw 2026 Mar 31;24(3.5):CLO26-080. doi: 10.6004/jnccn.2025.7453.
2. Audit. Fatima N, Afatb H, Iqbal S et al. Clinical and Quality Efficiency of Fractionated Nanocolloid Kits in Pre-Operative Visualization of Sentinel Lymph Nodes: A Cost-Effective Strategy for Public Sector Hospitals. PJR 2026; 36.1: 20-25.
3. Original Article: Fatima N, et al. Role of 18FDG PET/CT in Detecting Primary Tumors in Patients with Carcinoma of Unknown Primary: Single-Center Cross-Sectional Study from 2017 to 2023 (Extension Study). World J Nuclear Med 2025;24:57-63.
4. Original Article: Fatima N, et al. Standardization in pre-imaging protocols in follow-up imaging FDG PET/CT studies in Lymphoma patients; reasons beyond benchmark. PJR 2025; 35.4: 248-53.
5. Review: Fatima N, et al. Role of FDG PET/CT in Head and Neck Squamous Cell Cancer: Mini Review. PJR April-June 2025; 35(2): 102-9.
6. Case Report: Aslam M, Fatima N, Zaman M. Fournier's Gangrene as panic event in an oncological staging FGD PET/CT: Holier Than Thou Fournier's Gangrene and FDG PET/CT. PJR 2026; 36.1: 40-44.
7. Editorial: Zaman M, Fatima N, et al. Transarterial Radioembolization (TARE): A Precision Approach to Liver Cancer Therapy, PJR 2026; 36.1; V-VIII.
8. Editorial: Zaman M, Fatima N, et al. Editorial: Time to address plight of research in radiology and nuclear medicine in Pakistan. PJR 2025; 35.4:V.
9. Editorial: Zaman M, Fatima N. Immunotherapy: Imaging Challenges and Advances in Response Assessment. JCPSP 2025, Vol. 35(11):1365-1367.
10. Editorial: Fatima N. The Evolution of Nuclear Medicine from Unclear to 'Precision' Medicine. JCPSP 2025, Vol. 35(08):945-946
11. Editorial: Zaman M, Fatima N. RADIOLOGY TRAINING IN THE ERA OF AI: LET S EMBRACE THE FUTURE WITH CAUTION AND VISION. PJR April-June 2025; 35(2): V-VII.
12. Editorial: Zaman M, Fatima N. Role of PET/CT Imaging Thyroid Cancers. JCPSP 2025, Vol. 35(02):139-140.
13. Editorial: Zaman M, Fatima N, et al. ARE WE READY TO EMBRACE AI IN DIAGNOSTIC IMAGING? PJR 2025; 35(1):V-VI.
14. Abstract: Fatima N. Integrating 18FDG-PET/CT Biomarkers and Tumor Biology in Breast Cancer Prognosis. Eur J Nucl Med Mol Imaging 2025.

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Our department team remains committed to continuous learning and regularly enhances its knowledge through various **sessions, discussions, and collaborative academic activities.**



SHAPING FUTURE TALENT

The Nuclear Medicine and Theranostics Department proudly offers **internship opportunities for internal and external students**, providing hands-on experience in advanced nuclear medicine practices.



Students from Jinnah Sindh Medical University successfully completed their internships with excellent feedback from faculty. These programs help develop practical skills and support the growth of future healthcare professionals.

A DAY BEYOND THE WORKPLACE - ANNUAL PICNIC



Our department organized a delightful picnic on July 2025, where staff members were joined by their families, creating a warm and cheerful atmosphere.

It was a wonderful opportunity to relax, connect beyond the workplace, and strengthen team bonds.

Everyone enjoyed the day to the fullest, sharing laughter, activities, and quality time together, making it a truly memorable experience for all.

NUCLEAR MEDICINE & THERANOSTICS

CELEBRATING 500 PET CASES

A milestone of teamwork, dedication, and growing excellence in patient care



We happily celebrated a special milestone as our team completed the **first 500 PET cases**, marking the occasion with a simple cake cutting ceremony filled with smiles and team spirit. This achievement reflects the hard work, dedication, and teamwork of everyone involved in delivering quality patient care. It was a proud and memorable moment for all of us. As we celebrate this success, we look forward with enthusiasm to many more milestones ahead, continuing our journey with the same commitment, passion, and excellence.

A HISTORIC ACHIEVEMENT:

FIRST F-18 NOTA OCTEROTIDE PET/CT FOR NEUROENDOCRINE TUMOR (NET) IMAGING IN PAKISTAN AT DUHS, KARACHI



The Department of Nuclear Medicine and Theranostics at DUHS proudly stepped into a new chapter on 21st April 2026 with the successful performance of its first F-18 NOTA case in Pakistan. This moment was not just about introducing a new tracer, but about progress, teamwork, and a shared vision to improve patient care. From preparation to completion, the entire team worked with dedication and enthusiasm, making this achievement truly special. This first case marks the start of many more advancements to come, as the department continues to grow and move forward in the field of nuclear medicine.

NUCLEAR MEDICINE & THERANOSTICS

FAREWELL & NEW BEGINNINGS



Our department recently organized a heartfelt farewell gathering to honor our valued staff members for their dedication and contributions. We extend our sincere appreciation to **Muhammad Khalil Ahmed**, a highly respected senior member of our team, has been instrumental in the department's growth through his dedication, experience, and unwavering commitment, **Muhammad Ghufan Khan**, also a valued senior professional, has contributed significantly with his leadership, support, and positive approach, fostering a strong and collaborative work environment, **Muhammad Khavi Iqbal** is recognized for his professionalism and consistent commitment to excellence, making him a reliable and dedicated member of the team, **Wajiha Sohail** is appreciated for her sincerity, dedication, and graceful presence, bringing positivity and value to the department.

We extend our heartfelt gratitude to all of them and wish them continued success, happiness, and prosperity in their future endeavors.



Warmly welcome our new team members,
Mohammad Yousuf Badaruddin,
Moiz Uddin, Abdul Raheem Turk, Syed Hassan Ali Naqvi,
Imran Ali
Nimra Panhwar, and Fiza Arshad

We look forward to their contributions and wish them great success as they begin their journey with our department.

CLIMBING THE LADDER: STAFF PROMOTIONS



We're pleased to share that a few of our team members have recently been promoted. These changes reflect their growing responsibilities and contributions to the team. Congratulations to them as they step into their new roles. We look forward to their continued support in driving our work forward. We wish them the best in their new positions. These updates are part of our ongoing efforts to strengthen the team. We appreciate everyone's continued commitment.

Ms. Hina Aftab
Ms. Samreen Iqbal
Mr. Muhammad Danish Khan
Mr. Muhammad Zohaib Ansari

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INTERNATIONAL ACADEMIC VISIT

BANGLADESH DELEGATION AT DOW COMPREHENSIVE CANCER CENTRE

A delegation from Bangladesh visited the Dow Comprehensive Cancer Centre in April 2026, where they toured key clinical and academic facilities, including Medical Oncology, Radiation Oncology, and Nuclear Medicine & Theranostics.

The visit highlighted interdisciplinary cancer care and provided an opportunity for academic exchange, knowledge sharing, and discussion on advanced diagnostic and therapeutic approaches. The delegation appreciated the integrated model of cancer management, reflecting the centre's commitment to excellence, innovation, and collaborative healthcare practices.



SOLIDARITY IN ACTION: DEPARTMENT PARTICIPATION IN ARMY FORCE RALLY



Our department actively participated in the **Solidarity Army Force Rally** held in February 2026, demonstrating strong support for national unity and solidarity. The participation reflected our commitment to standing with the armed forces and honoring their services. It was a proud moment for the department to be part of this meaningful national event, showcasing respect, patriotism, and collective responsibility.

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FIRST SYMPOSIUM A HUGE HIT

I am delighted to share that the Nuclear Medicine and Theranostics Department proudly hosted its first symposium, titled **'Radiation Safety from a Nuclear Medicine Perspective'** held on 2nd August 2025.

The event was a resounding success, attracting a remarkably large number of participants from diverse backgrounds, reflecting the strong interest, enthusiasm, and engagement of the medical community.

Highlights the Success of Our First Symposium



The symposium provided an excellent platform for knowledge-sharing, discussion, and collaboration on critical aspects of radiation safety, reinforcing the department's commitment to high standards of clinical practice and patient protection. It also underscored our dedication to advancing academic initiatives, raising awareness, and fostering professional development within the field of nuclear medicine.



The symposium received an excellent response from the participants, with a large number of attendees taking part in the event. Professionals from other departments also actively participated in the discussions and presentations. We remain committed to organizing similar symposiums in the future to continue promoting academic exchange and professional development.



NUCLEAR MEDICINE & THERANOSTICS

INTRODUCING FIRST BATCH | 2026-2030 BS IN NUCLEAR MEDICINE TECHNOLOGY



Introducing the **First Batch (2026-2030) of BS in Nuclear Medicine Technology**. We warmly welcome our new students as they begin this exciting academic journey. May this program equip you with knowledge, skills, and dedication to build a bright future in advancing healthcare and nuclear medicine. We wish them success, growth, and excellence throughout their academic and professional journey.

This program includes many interesting and specialized subjects such as **Nuclear Medicine, Nuclear Cardiology, Radiation Safety Protocols, Theranostics, Radiopharmaceutical Preparation and Handling, PET/CT imaging, research studies, and many more**. Through these subjects, students will gain both strong theoretical knowledge and a deeper understanding of modern medical technologies used in nuclear medicine.



We hope our students will truly enjoy learning in this dynamic and rapidly advancing field and will feel confident and proud of choosing this career path, with no regrets in the future.

We believe this program will equip them with the knowledge, skills, and dedication needed to contribute to the advancement of healthcare and nuclear medicine. We wish our students success, growth, and excellence throughout their academic and professional journey, and we look forward to continuing and expanding this program in the coming years.



Naseem Haider
IT Administrator

Behind the scenes, Mr. Naseem Haider played a pivotal role during the startup phase by resolving critical IT challenges and leading innovative digital initiatives. His contributions include digitization of radiopharmacy workflow, paperless departmental integration, patient satisfaction feedback systems, and 360-degree staff evaluation, significantly enhancing efficiency and quality standards within the department.



**Newsletter Editorial Lead
Departmental Marketing Incharge
Asma Ismail**

I would like to sincerely appreciate the excellent effort put into the development of our departmental newsletter.

Your dedication, creativity, and attention to detail are clearly reflected in the quality of the work produced.

The editorial structure, content organization, and overall presentation demonstrate a high level of professionalism and commitment.

It is also encouraging to see your proactive approach and readiness to contribute toward the promotional and outreach aspects of this initiative.

I am truly pleased with your dedication and look forward to your continued efforts in further enhancing the department's visibility and impact.